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**User authentication method for authenticating user to application through communications network**  
**Patent Assignee:** TELEFONAKTIEBOLAGET ERICSSON L M; TELEFON ERICSSON PUBL AB L M  
**Inventors:** TURTIAINEN E

**Patent Family (18 patents, 82 countries)**

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999044114	A1	19990902	WO 1999EP763	A	19990205	199947	B
FI 199800427	A	19990826	FI 1998427	A	19980225	199949	E
AU 199928316	A	19990915	AU 199928316	A	19990205	200004	E
BR 199908246	A	20001031	BR 19998246	A	19990205	200060	E
			WO 1999EP763	A	19990205		
EP 1058872	A1	20001213	EP 1999908851	A	19990205	200066	E
			WO 1999EP763	A	19990205		
CN 1292108	A	20010418	CN 1999803282	A	19990205	200141	E
MX 2000007816	A1	20010101	MX 20007816	A	20000810	200166	E
KR 2001041363	A	20010515	KR 2000709479	A	20000825	200167	E
JP 2002505458	W	20020219	WO 1999EP763	A	19990205	200216	E
			JP 2000533799	A	19990205		
US 6430407	B1	20020806	US 1999244018	A	19990204	200254	E
EP 1058872	B1	20021218	EP 1999908851	A	19990205	200301	E
			WO 1999EP763	A	19990205		
AU 755054	B	20021205	AU 199928316	A	19990205	200305	E
DE 69904570	E	20030130	DE 69904570	A	19990205	200317	E
			EP 1999908851	A	19990205		
			WO 1999EP763	A	19990205		
MX 220430	B	20040517	WO 1999EP763	A	19990205	200501	E
			MX 20007816	A	20000810		
IL 138007	A	20050725	IL 138007	A	19990205	200557	E
CN 100380267	C	20080409	CN 1999803282	A	19990205	200845	E
KR 683976	B1	20070215	WO 1999EP763	A	19990205	200850	E
			KR 2000709479	A	20000825		
JP 4364431	B2	20091118	WO 1999EP763	A	19990205	200976	E
			JP 2000533799	A	19990205		

**Priority Application Number (Number Kind Date):** FI 1998427 A 19980225

Patent Details					
Patent Number	Kind	Language	Pages	Drawings	Filing Notes
<u>WO 1999044114</u>	A1	EN	34	7	
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW				
AU 199928316	A	EN			Based on OPI patent WO 1999044114
BR 199908246	A	PT			PCT Application WO 1999EP763
					Based on OPI patent WO 1999044114
<u>EP 1058872</u>	A1	EN			PCT Application WO 1999EP763
					Based on OPI patent WO 1999044114
Regional Designated States,Original	BE DE DK ES FI FR GB IT SE				
JP 2002505458	W	JA	59		PCT Application WO 1999EP763
					Based on OPI patent WO 1999044114
<u>EP 1058872</u>	B1	EN			PCT Application WO 1999EP763
					Based on OPI patent WO 1999044114
Regional Designated States,Original	BE DE DK ES FI FR GB IT SE				
AU 755054	B	EN			Previously issued patent AU 9928316
					Based on OPI patent WO 1999044114

DE 69904570	E	DE			Application EP 1999908851
					PCT Application WO 1999EP763
					Based on OPI patent EP 1058872
					Based on OPI patent WO 1999044114
MX 220430	B	ES			PCT Application WO 1999EP763
					Based on OPI patent WO 1999044114
IL 138007	A	EN			Based on OPI patent WO 1999044114
KR 683976	B1	KO			PCT Application WO 1999EP763
					Previously issued patent KR 2001041363
					Based on OPI patent WO 1999044114
JP 4364431	B2	JA	17		PCT Application WO 1999EP763
					Previously issued patent JP 2002505458
					Based on OPI patent WO 1999044114

### **Alerting Abstract: WO A1**

**NOVELTY** - A connection is established between an application and a user interface through a communications network, so as to enable an access of a user to an application. Authentication is provided using a mobile station communicating through a mobile communications network.

**DESCRIPTION - INDEPENDENT CLAIMS** are included for; a method in which a subscription identification module (SIM) of the mobile station is used for providing the identity of the user; a mobile station for providing authentication to an application through a communications network.

**USE** - Providing an authentication to an application through a communications network e.g. when accessing commercial services through networks e.g. Internet, Intranet or local area networks.

ADVANTAGE - User who wishes to access an application can be authenticated in a secure manner.

DESCRIPTION OF DRAWINGS - The drawing is a schematic presentation of an embodiment for authenticating a user according to the invention.

1 Mobile station

16 User terminal

22 User

**International Classification (Main):** G06F-001/00, G06F-017/60, G07F-007/08 **(Additional/Secondary):** H04L-029/06, H04L-009/32, H04Q-007/38

#### International Patent Classification

IPC	Level	Value	Position	Status	Version
G06F-0001/00	A	I		R	20060101
G06F-0001/00	A	I	F	B	20060101
G06F-0021/00	A	I		R	20060101
G06Q-0020/00	A	I		R	20060101
G06Q-0020/00	A	I	F	R	20060101
G07F-0007/08	A	I		R	20060101
G07F-0007/08	A	I	L	B	20060101
G07F-0007/08	A	I	F	B	20060101
H04L-0029/06	A	I		R	20060101
H04L-0029/06	A	I	L	B	20060101
H04L-0009/32	A	I	L	R	20060101
H04L-0009/32	A	I	L	B	20060101
H04Q-0007/38	A	I	L	R	20060101
G06F-0001/00	C	I		R	20060101
G06F-0001/00	C	I	F	B	20060101
G06F-0021/00	C	I		R	20060101
G06Q-0020/00	C	I		R	20060101
G07F-0007/08	C	I		R	20060101
G07F-0007/08	C	I	L	B	20060101
G07F-0007/08	C	I		B	20060101
H04L-0029/06	C	I		R	20060101
H04L-0029/06	C	I	L	B	20060101
H04L-0009/32	C	I	L	R	20060101
H04L-0009/32	C	I		B	20060101

H04Q-0007/38 C I L R 20060101

**US Classification, Issued:** 455-411000

**US Classification, Issued:** 380-033000, 455-456100

**US Classification, Issued:** 455456, 38033, 455411

### **Original Publication Data by Authority**

#### **Australia**

Publication Number: AU 755054 B (Update 200305 E)

Publication Date: 20021205

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M; SE (TELF)

Language: EN

Application: AU 199928316 A 19990205 (Local application)

Priority: FI 1998427 A 19980225

Related Publication: AU 9928316 A (Previously issued patent) WO 1999044114 A (Based on OPI patent )

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E|AU 199928316 A (Update 200004 E)

Publication Date: 19990915

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M; SE (TELF)

Language: EN

Application: AU 199928316 A 19990205 (Local application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent )

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

#### **Brazil**

Publication Number: BR 199908246 A (Update 200060 E)

Publication Date: 20001031

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: TURTIAINEN E

Language: PT

Application: BR 19998246 A 19990205 (Local application) WO 1999EP763 A 19990205 (PCT Application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent )

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

## China

Publication Number: CN 100380267 C (Update 200845 E)

Publication Date: 20080409

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M; SE (TELF)

Inventor: TURTIAINEN E

Language: ZH

Application: CN 1999803282 A 19990205 (Local application)

Priority: FI 1998427 A 19980225

Original IPC: G06F-1/00(I,CN,20060101,A,F) G06F-1/00(I,M,98,20060101,C) G07F-

7/08(I,CN,20060101,A,L) G07F-7/08(I,M,98,20060101,C) H04L-29/06(I,CN,20060101,A,L) H04L-

29/06(I,M,98,20060101,C)

Current IPC: G06F-1/00(B,I,H,CN,20060101,20080409,A,F) G06F-1/00(B,I,H,CN,20060101,20080409,C,F)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(B,I,H,CN,20060101,20080409,A,L) G07F-7/08(B,I,H,CN,20060101,20080409,C,L) H04L-

29/06(B,I,H,CN,20060101,20080409,A,L) H04L-29/06(B,I,H,CN,20060101,20080409,C,L) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E|CN 1292108 A (Update 200141 E)

Publication Date: 20010418

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M; SE (TELF)

Language: ZH

Application: CN 1999803282 A 19990205 (Local application)

Priority: FI 1998427 A 19980225

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8  
Current ECLA ICO class: T04L-29:06S8E

## **Germany**

Publication Number: DE 69904570 E (Update 200317 E)

Publication Date: 20030130

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M; SE (TELF)

Language: DE

Application: DE 69904570 A 19990205 (Local application) EP 1999908851 A 19990205 (Application) WO 1999EP763 A 19990205 (PCT Application)

Priority: FI 1998427 A 19980225

Related Publication: EP 1058872 A (Based on OPI patent ) WO 1999044114 A (Based on OPI patent )

Original IPC: G06F-1/00(A) G06F-1/00(A) G07F-7/08(B) G07F-7/08(B) H04L-29/06(B) H04L-29/06(B)

Current IPC: G06F-1/00(A) G06F-1/00(A) G07F-7/08(B) G07F-7/08(B) H04L-29/06(B) H04L-29/06(B)

## **European Patent Office**

Publication Number: EP 1058872 A1 (Update 200066 E)

Publication Date: 20001213

**\*\*VERFAHREN, ANORDNUNG UND EINRICHTUNG ZUR AUTHENTIFIZIERUNG DURCH EIN KOMMUNIKATIONSNETZ METHOD, ARRANGEMENT AND APPARATUS FOR AUTHENTICATION THROUGH A COMMUNICATIONS NETWORK PROCEDE, DISPOSITIF, ET APPAREIL D'AUTHENTIFICATION PAR UN RESEAU DE COMMUNICATION\*\***

Assignee: TELEFONAKTIEBOLAGET LM ERICSSON, 126 25 Stockholm, SE (TELF)

Inventor: TURTIAINEN, Esa, Kartanonkuja 8 H, FIN-02360 Espoo, FI

Agent: Heikkila, Hannes Antero, Borenius Co Oy Ab, Kansakoulukuja 3, 00100 Helsinki, FI

Language: EN

Application: EP 1999908851 A 19990205 (Local application) WO 1999EP763 A 19990205 (PCT Application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent )

Designated States: (Regional Original) BE DE DK ES FI FR GB IT SE

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

Original Abstract: A method, arrangement and apparatus for providing an authentication to an application provided through a communications network. A connection is established between the application and a user interface through said communications network so as to enable an access of a user to the application. An authentication is provided to said application by means of a mobile station communicating through a mobile communications network. IEP 1058872 B1 (Update 200301 E)

Publication Date: 20021218

**\*\*VERFAHREN, ANORDNUNG UND EINRICHTUNG ZUR AUTHENTIFIZIERUNG DURCH EIN KOMMUNIKATIONSNETZ METHOD, ARRANGEMENT AND APPARATUS FOR AUTHENTICATION THROUGH A COMMUNICATIONS NETWORK PROCEDE, DISPOSITIF, ET APPAREIL D'AUTHENTIFICATION PAR UN RESEAU DE COMMUNICATION\*\***

Assignee: TELEFONAKTIEBOLAGET LM ERICSSON, 126 25 Stockholm, SE

Inventor: TURTIAINEN, Esa, Kartanonkuja 8 H, FIN-02360 Espoo, FI

Agent: Heikkila, Hannes Antero, Borenius Co Oy Ab, Kansakoulukuja 3, 00100 Helsinki, FI

Language: EN

Application: EP 1999908851 A 19990205 (Local application) WO 1999EP763 A 19990205 (PCT Application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent )

Designated States: (Regional Original) BE DE DK ES FI FR GB IT SE

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

Claim: 1.Verfahren zum Authentisieren eines Benutzers (22) gegenüber einer Anwendung (45), wobei die Anwendung (45) dem Benutzer (22) durch ein erstes Kommunikationsnetz verfügbar ist, wobei das Verfahren umfasst: \* Herstellen einer Verbindung zwischen der Anwendung (45) und einer Benutzerschnittstelle (16) durch das erste Kommunikationsnetz, um so einem Benutzer (22) zu ermöglichen, auf die Anwendung (45) zuzugreifen; \* Herstellen einer Verbindung zwischen der Anwendung (45), welche mit einer Datenbank (46) verbinden kann, in welcher eine Mobilstation (1, 2) registriert ist, und der Mobilstation (1, 2) durch ein zweites Kommunikationsnetz; \*\*dadurch gekennzeichnet, dass\*\* das Verfahren ferner umfasst: \* Authentisieren des Benutzers (22) gegenüber der Anwendung (45) mittels der Mobilstation (1, 2), welche mit der Anwendung (45) durch das zweite Kommunikationsnetz kommuniziert. 1.A method for authenticating a user (22) to an application (45), the application (45) being available to the user (22) through a first communications network, the method comprising: \* establishing a connection between the application (45) and a user interface (16) through the first communications network so as to enable a user (22) to access the application (45); \* establishing a connection between the application (45), which may connect to a database (46) to which a mobile station (1, 2) is registered, and the mobile station (1, 2) through a second communications network; \*\*characterized in that\*\* the method further comprises authenticating the user (22) to the application (45) by means of the mobile station (1, 2) communicating with the application (45) through the second communications network. 1.Procede d'authentification d'un utilisateur (22) d'une application (45), l'application (45) etant disponible pour l'utilisateur (22) par l'intermediaire d'un premier reseau de telecommunications, le procede comprenant: \* l'etablissement, par l'intermediaire du premier reseau de telecommunications, d'une connexion entre l'application (45) et une interface (16) d'utilisateur de facon a permettre a un utilisateur (22) d'accéder a l'application (45); \* l'etablissement, par l'intermediaire d'un second reseau de telecommunications, d'une connexion entre l'application (45), qui peut être connectée a une base de données (46) a laquelle un poste mobile (1, 2) est enregistré, et le poste mobile (1, 2); \*\*caracterise en ce que\* \* le procede comprend en outre: \* l'authentification de l'utilisateur (22) pour l'application (45) au moyen du poste mobile (1, 2) communiquant avec l'application (45) par l'intermediaire du second reseau de telecommunications.

## Finland

Publication Number: FI 199800427 A (Update 199949 E)

Publication Date: 19990826

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: TURTIAINEN E

Language: FI

Application: FI 1998427 A 19980225 (Local application)

Original IPC: H04L(A)



Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C) G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)  
Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3 G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8  
Current ECLA ICO class: T04L-29:06S8E

## **Israel**

Publication Number: IL 138007 A (Update 200557 E)  
Publication Date: 20050725  
Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)  
Language: EN  
Application: IL 138007 A 19990205 (Local application)  
Priority: FI 1998427 A 19980225  
Related Publication: WO 1999044114 A (Based on OPI patent )  
Original IPC: H04L-29/06(A) G06F-1/00(B) G07F-7/68(B) H04L-9/00(B)  
Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C) G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)  
Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3 G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8  
Current ECLA ICO class: T04L-29:06S8E

## **Japan**

Publication Number: JP 2002505458 W (Update 200216 E)  
Publication Date: 20020219  
Language: JA (59 pages)  
Application: WO 1999EP763 A 19990205 (PCT Application) JP 2000533799 A 19990205 (Local application)  
Priority: FI 1998427 A 19980225  
Related Publication: WO 1999044114 A (Based on OPI patent )  
Original IPC: G07F-7/08(A) H04L-9/32(B) H04Q-7/38(B)  
Current IPC: G07F-7/08(A) H04L-9/32(B) H04Q-7/38(B)  
Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3 G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8  
Current ECLA ICO class: T04L-29:06S8E  
Current JP FI-Terms: G07F-7/08 H04B-7/26 109 S H04L-9/00 673 A H04L-9/00 673 E  
Current JP F-Terms: 3E044 5J104 5K067 5J104AA07 3E044BA04 3E044DA10 5K067DD17 3E044DE01 5J104KA01 5J104NA38 5J104PA02JP 4364431 B2 (Update 200976 E)  
Publication Date: 20091118  
\*\*The method, arrangement|sequence, and apparatus which are authenticated through a communication network\*\*  
Assignee: TELEFON ERICSSON PUBL AB L M; JP (TELF)  
Language: JA (17 pages)  
Application: JP 2000533799 A 19990205 (Local application) WO 1999EP763 A 19990205 (PCT Application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent ) JP 2002505458 A (Previously issued patent)

Original IPC: G07F-7/08(B,I,H,JP,20060101,20091029,A,F) G07F-7/08(B,I,M,98,20060101,20091029,C)  
H04L-9/32(B,I,H,JP,20060101,20091029,A,L) H04L-9/32(B,I,M,98,20060101,20091029,C)

Current IPC: G07F-7/08(B,I,H,JP,20060101,20091029,A,F) G07F-7/08(B,I,M,98,20060101,20091029,C)  
H04L-9/32(B,I,H,JP,20060101,20091029,A,L) H04L-9/32(B,I,M,98,20060101,20091029,C)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3  
G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

Current JP FI-Terms: G07F-7/08 (main, A) H04L-9/00 673 A (secondary, B) H04L-9/00 673 E (secondary, B)  
G07F-7/08 H04B-7/26 109 S H04L-9/00 673 A H04L-9/00 673 E

Current JP F-Terms: 3E044 5J104 5K067 5J104AA07 3E044BA04 3E044DA10 5K067DD17 3E044DE01  
5J104KA01 5J104NA38 5J104PA02

Original Abstract: (Technical field to which invention belongs)This invention relates to the method of giving authentication with respect to an application.This invention relates to the arrangementsequence which gives authentication with respect to an application further, and also the apparatus used in authentication.

Claim: It is a method to authenticate a user for an application,Comprising:The said application sets to a method useable to the said user through the 1st communication network,The step which establishes a connection between the said application and a user interface through said 1st communication network so that a user can access an application,The step which establishes a connection through the 2nd communication network at the data base into which the mobile station is registered between the said connectable application and the said mobile station,andThe step which authenticates the user with respect to the said application with the said mobile station that communicates with the said application through said 2nd communication network is provided,The step of the said authentication,When the said user accesses the said application with the said user interface,The said user's identification is verified using the said mobile station,The message which inquires whether carry out acknowledgment to the transaction or treatment which the said user demanded from the said application through the said user interface after the said access is displayed on the display of the said mobile station,When the said user selects affirmation with respect to the displayed said message,A method including carrying out acknowledgment to the said transaction or treatment using the said mobile station.

## **Republic of Korea**

Publication Number: KR 2001041363 A (Update 200167 E)

Publication Date: 20010515

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Language: KO

Application: KR 2000709479 A 20000825 (Local application)

Priority: FI 1998427 A 19980225

Original IPC: G06F-17/60(A)

Current IPC: G06F-17/60(A)|KR 683976 B1 (Update 200850 E)

Publication Date: 20070215

**\*\*Method, arrangement and apparatus for authentication\*\***

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: TURTIAINEN E

Language: KO

Application: WO 1999EP763 A 19990205 (PCT Application) KR 2000709479 A 20000825 (Local application)

Priority: FI 1998427 A 19980225

Related Publication: KR 2001041363 A (Previously issued patent) WO 1999044114 A (Based on OPI patent )

Original IPC: G06Q-20/00(R,I,H,KR,20060101,20060103,A,F) G06Q-20/00(R,I,M,98,20060101,20060103,C)

Current IPC: G06Q-20/00(R,I,H,KR,20060101,20060103,A,F) G06Q-20/00(R,I,M,98,20060101,20060103,C)

## **Mexico**

Publication Number: MX 2000007816 A1 (Update 200166 E)

Publication Date: 20010101

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: TURTIAINEN E

Language: ES

Application: MX 20007816 A 20000810 (Local application)

Priority: FI 1998427 A 19980225

Original IPC: G06F-1/00(A)

Current IPC: G06F-1/00(A)MX 220430 B (Update 200501 E)

Publication Date: 20040517

Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF)

Inventor: TURTIAINEN E

Language: ES

Application: WO 1999EP763 A 19990205 (PCT Application) MX 20007816 A 20000810 (Local application)

Priority: FI 1998427 A 19980225

Related Publication: WO 1999044114 A (Based on OPI patent )

Original IPC: G06F-1/00(A) G06F-1/00(A) G07F-7/08(B) G07F-7/08(B) H04L-29/06(B) H04L-29/06(B)

Current IPC: G06F-1/00(A) G06F-1/00(A) G07F-7/08(B) G07F-7/08(B) H04L-29/06(B) H04L-29/06(B)

### **United States**

Publication Number: US 6430407 B1 (Update 200254 E)

Publication Date: 20020806

**\*\*METHOD, APPARATUS, AND ARRANGEMENT FOR AUTHENTICATING A USER TO AN APPLICATION IN A FIRST COMMUNICATIONS NETWORK BY MEANS OF A MOBILE STATION COMMUNICATING WITH THE APPLICATION THROUGH A SECOND COMMUNICATIONS NETWORK.\*\***

Assignee: Telefonaktiebolaget LM Ericsson (publ), Stockholm, SE

Inventor: Turtiainen, Esa, Espoo, FI

Agent: Nixon Vanderhye P.C.

Language: EN

Application: US 1999244018 A 19990204 (Local application)

Priority: FI 1998427 A 19980225

Original IPC: H04M-1/66(A) H04K-1/10(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C)

G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-

20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-

7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-

29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-

9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-

7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2C2 G06F-21/00N5A2D3 G06F-21/00N5A2T G06F-21/00N5A2V3

G06F-21/00N9A6 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06S18 H04L-29/06S8

Current ECLA ICO class: T04L-29:06S8E

Current US Class (main): 455-411000

Current US Class (secondary): 380-033000 455-456100

Original US Class (main): 455411

Original US Class (secondary): 455456 38033

Original Abstract: A method, arrangement, and apparatus for providing an authentication to an application provided through a communications network. A connection is established between the application and a user interface through said communications network so as to enable an access of a user to the application. An authentication is provided to said application by means of a mobile station communicating through a mobile communications network.

Claim: 1.An arrangement for authenticating an application provided by an applica tion provider through a

communications network, comprising: \* a user interface; \* a first connection between the application and the user interface through the communications network so as to enable use of the application; \* a database, accessible by the application, for storing user authentication information including information indicating one or more geographical cells associated with a cellular radio communications system from which the user may access the application; \* a mobile station; and \* an authentication controller for enabling an authentication procedure if the mobile station is situated in the one or more geographical cells associated with the cellular radio communications system, and if so, communicating over a second connection established between the application and the mobile station corresponding to a cellular radio communications channel associated with one of the geographical cells at least some of the user authentication information to the mobile station.

## WIPO

Publication Number: WO 1999044114 A1 (Update 199947 B)

Publication Date: 19990902

**\*\*METHOD, ARRANGEMENT AND APPARATUS FOR AUTHENTICATION THROUGH A COMMUNICATIONS NETWORK PROCEDURE, DISPOSITIF, ET APPAREIL D'AUTHENTIFICATION PAR UN RESEAU DE COMMUNICATION\*\***

Assignee: TELEFONAKTIEBOLAGET LM ERICSSON, S-126 25 Stockholm, SE Residence: SE Nationality: SE (TELF)

Inventor: TURTIAINEN, Esa, Kartanonkuja 8 H, FIN-02360 Espoo, FI

Agent: BORENIUS CO. OY AB, Kansakoulukuja 3, FIN-00100 Helsinki, FI

Language: EN (34 pages, 7 drawings)

Application: WO 1999EP763 A 19990205 (Local application)

Priority: FI 1998427 A 19980225

Designated States: (National Original) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW (Regional Original) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW

Original IPC: G06F-1/00(A) G07F-7/08(B) H04L-29/06(B)

Current IPC: G06F-1/00(R,A,I,M,EP,20060101,20051008,A) G06F-1/00(R,I,M,EP,20060101,20051008,C) G06F-21/00(R,I,M,EP,20060101,20051008,A) G06F-21/00(R,I,M,EP,20060101,20051008,C) G06Q-20/00(R,I,M,EP,20060101,20051008,A) G06Q-20/00(R,I,M,EP,20060101,20051008,C) G07F-7/08(R,I,M,EP,20060101,20051008,A) G07F-7/08(R,I,M,EP,20060101,20051008,C) H04L-29/06(R,I,M,EP,20060101,20051008,A) H04L-29/06(R,I,M,EP,20060101,20051008,C) H04L-9/32(R,I,M,JP,20060101,20051220,A,L) H04L-9/32(R,I,M,JP,20060101,20051220,C,L) H04Q-7/38(R,I,M,JP,20060101,20051220,A,L) H04Q-7/38(R,I,M,JP,20060101,20051220,C,L)

Current ECLA class: G06F-21/00N5A2V3 G06Q-20/00 G06Q-20/00K5 G07F-7/08 H04L-29/06 H04L-29/06C6C2 H04L-29/06C6F

Current ECLA ICO class: S06F-1:00N5A2

Original Abstract: A method, arrangement and apparatus for providing an authentication to an application provided through a communications network. A connection is established between the application and a user interface through said communications network so as to enable an access of a user to the application. An authentication is provided to said application by means of a mobile station communicating through a mobile communications network. L'invention concerne un procede, un dispositif, et un appareil fournissant une authentification a une application disponible par l'intermediaire d'un reseau de communication. On etablit une connexion entre cette application et une interface utilisateur par l'intermediaire de ce reseau de communication, afin de permettre a l'utilisateur d'accéder a ladite application. Cette invention fournit également une authentification a cette application a l'aide d'une station mobile communiquant par l'intermediaire d'un reseau de communication mobile.

Derwent World Patents Index

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# METHOD, ARRANGEMENT AND APPARATUS FOR AUTHENTICATION THROUGH A COMMUNICATIONS NETWORK

**Publication number:** JP2002505458 (T)

**Publication date:** 2002-02-19

**Inventor(s):**

**Applicant(s):**

**Classification:**

- **international:** **G06F1/00; G06F21/00; G06Q20/00; G07F7/08; H04L29/06; H04L9/32; H04Q7/38; G06F1/00; G06F21/00; G06Q20/00; G07F7/08; H04L29/06; H04L9/32; H04Q7/38; (IPC1-7): G07F7/08; H04L9/32; H04Q7/38**

- **European:** **G06F21/00N5A2C2; G06F21/00N5A2D3; G06F21/00N5A2T; G06F21/00N5A2V3; G06F21/00N9A6; G06Q20/00K5; G07F7/08; H04L29/06; H04L29/06S18; H04L29/06S8**

**Application number:** JP20000533799T 19990205

**Priority number(s):** WO1999EP00763 19990205; FI19980000427 19980225

**Also published as:**

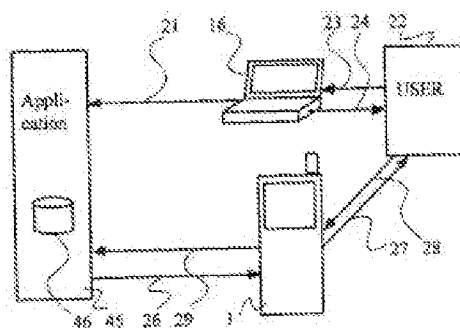
JP4364431 (B2)  
WO9944114 (A1)  
US6430407 (B1)  
IL138007 (A)  
HK1036344 (A1)

[more >>](#)

Abstract not available for JP 2002505458 (T)

Abstract of corresponding document: **WO 9944114 (A1)**

A method, arrangement and apparatus for providing an authentication to an application provided through a communications network. A connection is established between the application and a user interface through said communications network so as to enable an access of a user to the application. An authentication is provided to said application through a mobile station communicating through a mobile communications network.



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